

Headquarters U.S. Air Force

Integrity - Service - Excellence

Air Force Safety Update



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Air Force Chief of Safety &
Commander, Air Force Safety Center

6 November 2007

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Aviation



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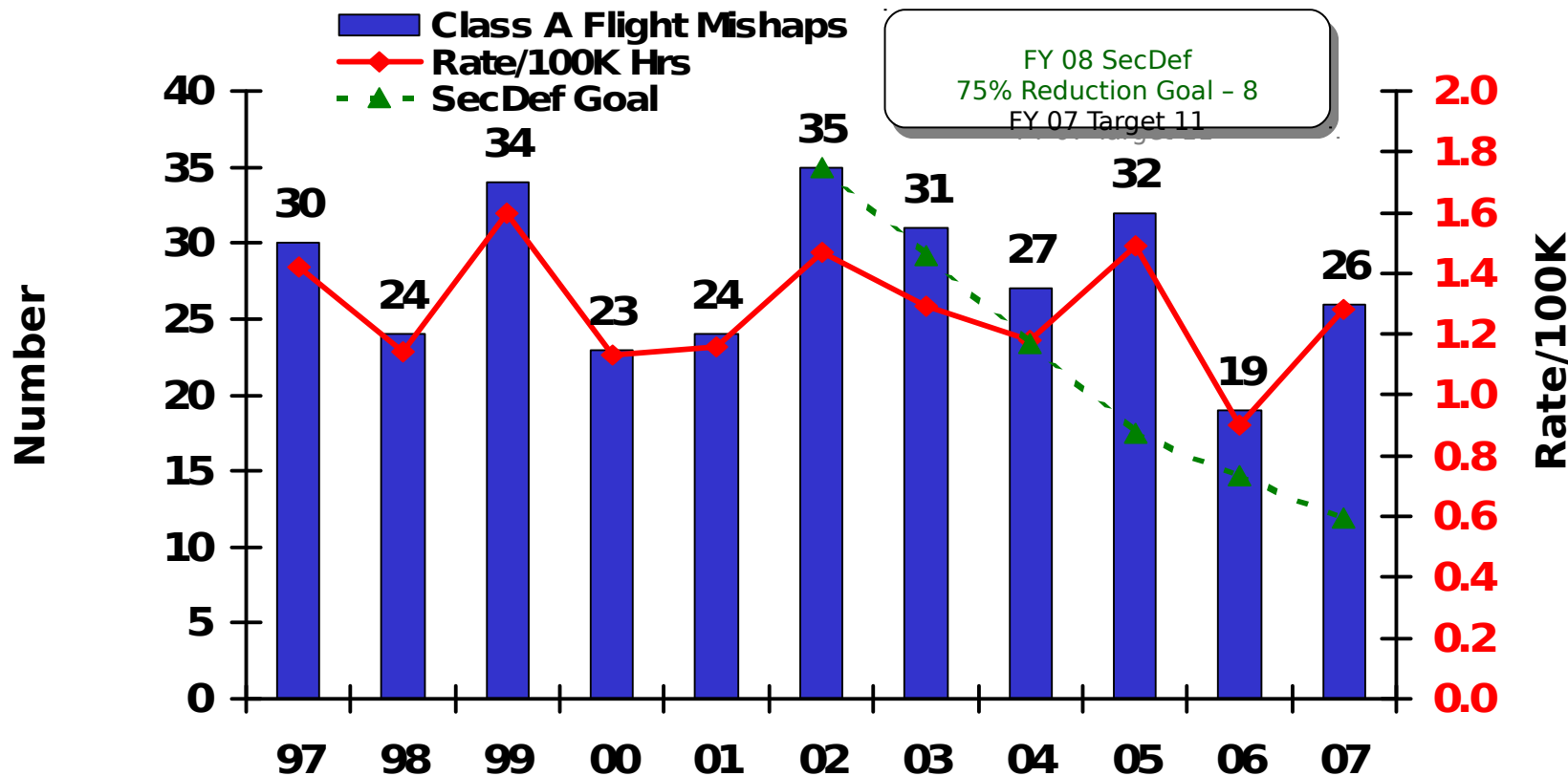


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Class A Flight Mishaps

FY 07 End-of-Year



FY 07 **FY 06**
Class A Flight Mishaps / Class A Rate to Date: 26 / 1.28
10-Year Avg (FY 97-06) Class A Mishaps / Mishap Rate: 27.7 / 1.27

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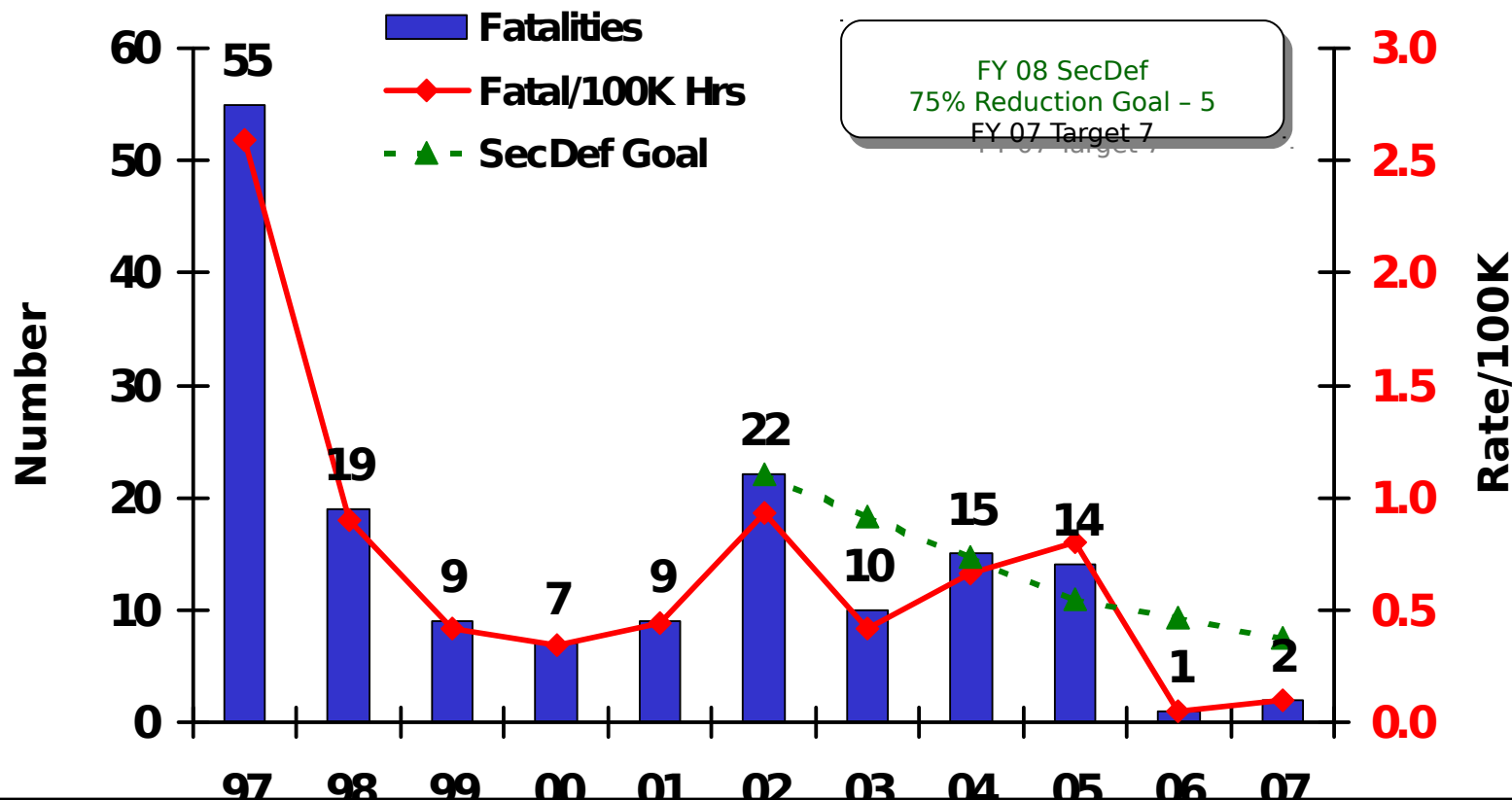


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Aviation-Related Fatalities

FY 07 End-of-Year



FY 07 **FY 06**
Aviation Fatalities / Fatal Rate to Date: 2 / 0.10 1 / 0.05
10-Year Avg (FY 97-06) Annual Fatalities / Fatal Rate: 16.2 / 0.74

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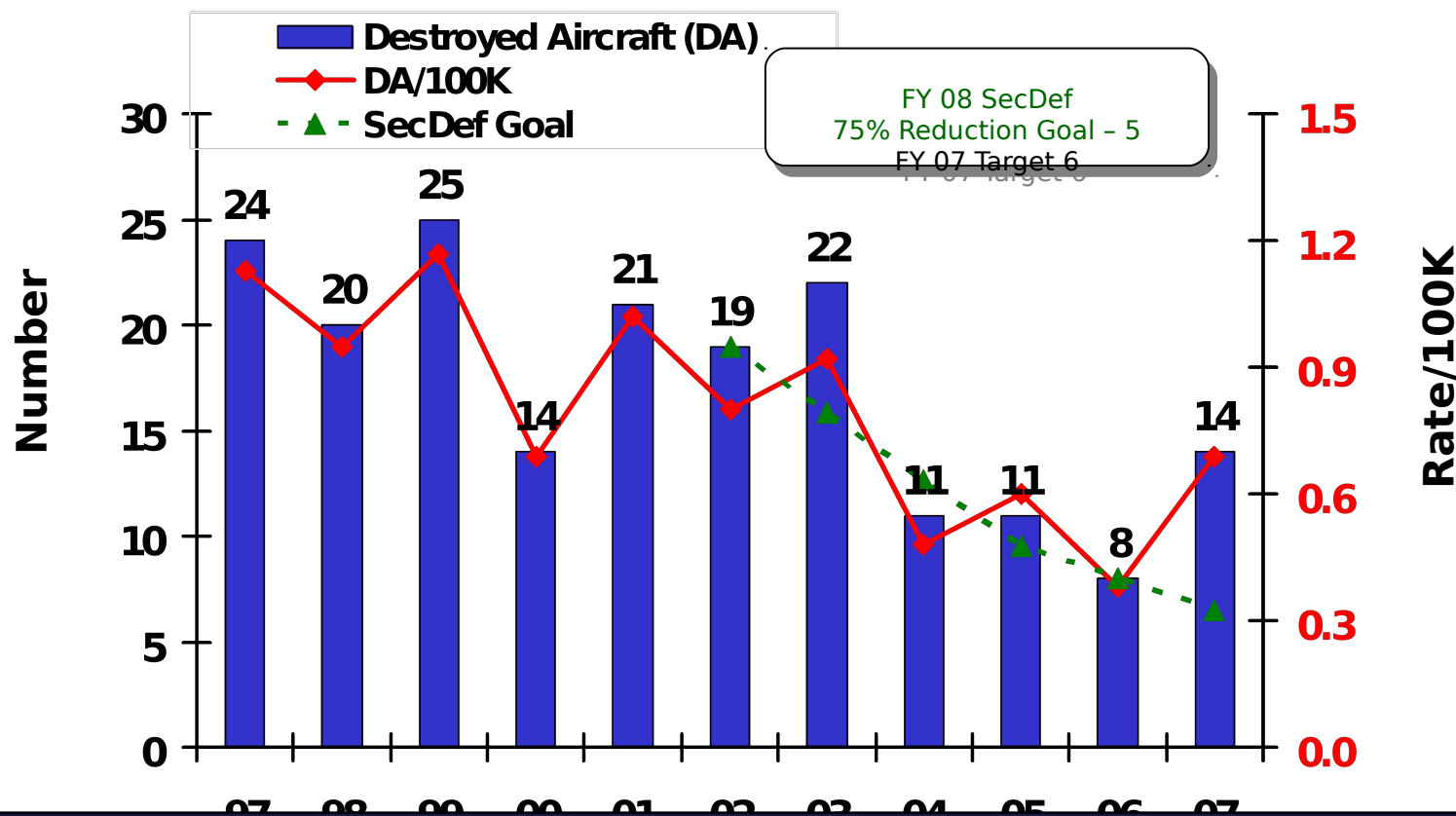


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Destroyed USAF Aircraft

FY 07 End-of-Year



FY 07 FY 06
Destroyed Aircraft / Rate to Date: 14 / 0.69 8 / 0.38
10-Year Avg (FY 97-06) Annual Destroyed Aircraft / Rate:
17.5 / 0.81

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Ground



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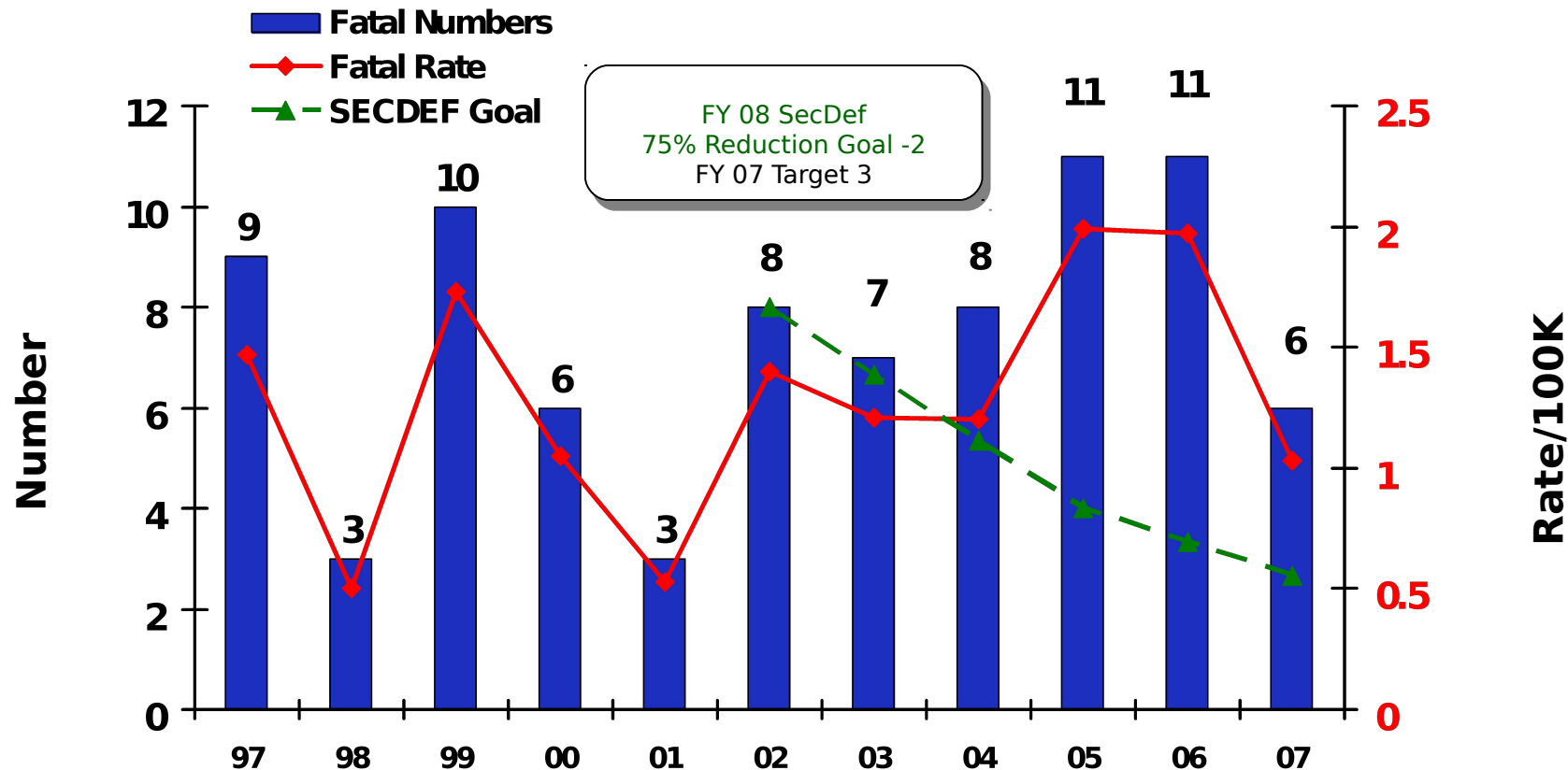


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On-Duty Ground Fatalities

FY 07 (thru 30 Sep 07)



06

Ground Fatalities / Fatal Rate to Date:

6 / 1.03

FY 07

FY

11 / 1.97

10-year Average (FY 97-06) Fatalities / Fatal Rate:

7.7 / 1.32

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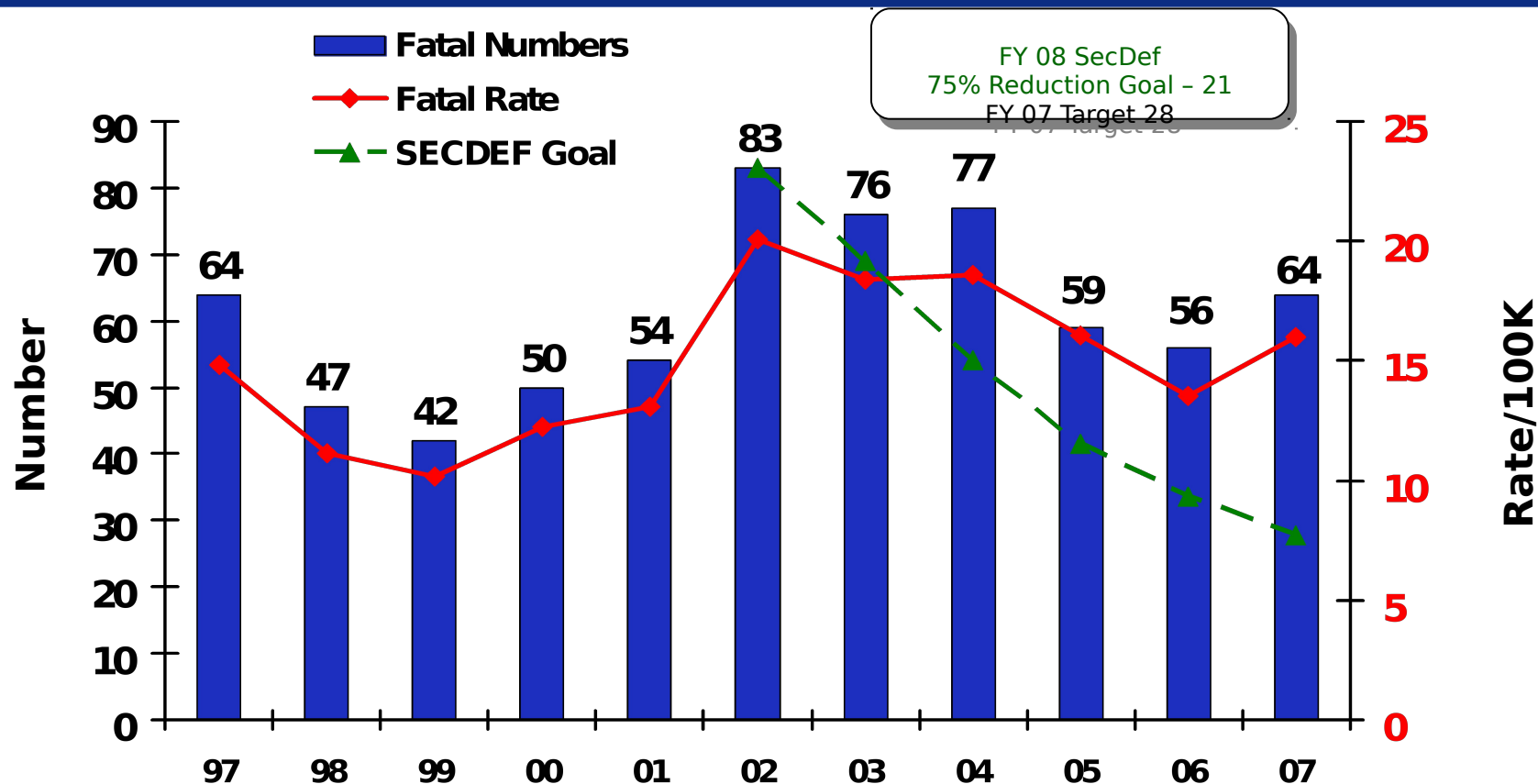


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Off-Duty Ground Fatalities

FY 07 (thru 30 Sep 07)



FY 06

Ground Fatalities / Fatal Rate to Date:

13.54

FY 07

64 / 15.99

56 /

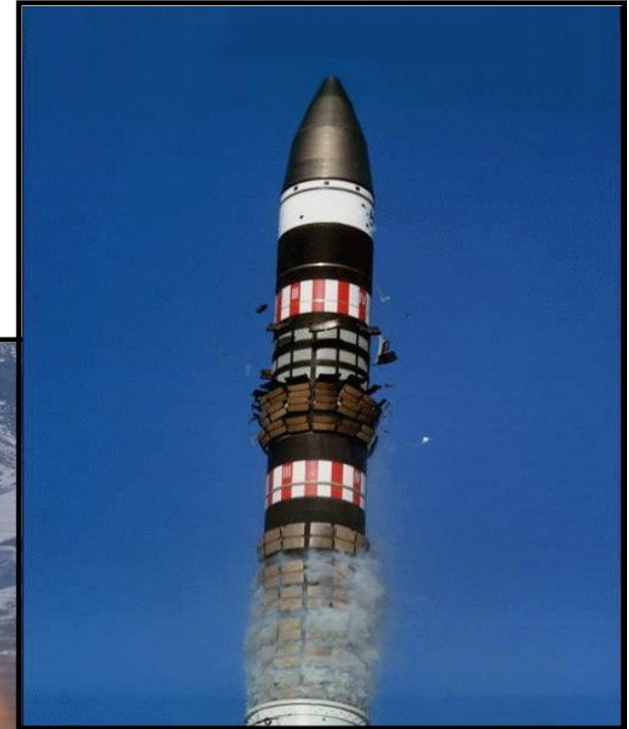
10-year Average (FY 97-06) Fatalities / Fatal Rate:

60.8 / 14.64



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Weapons

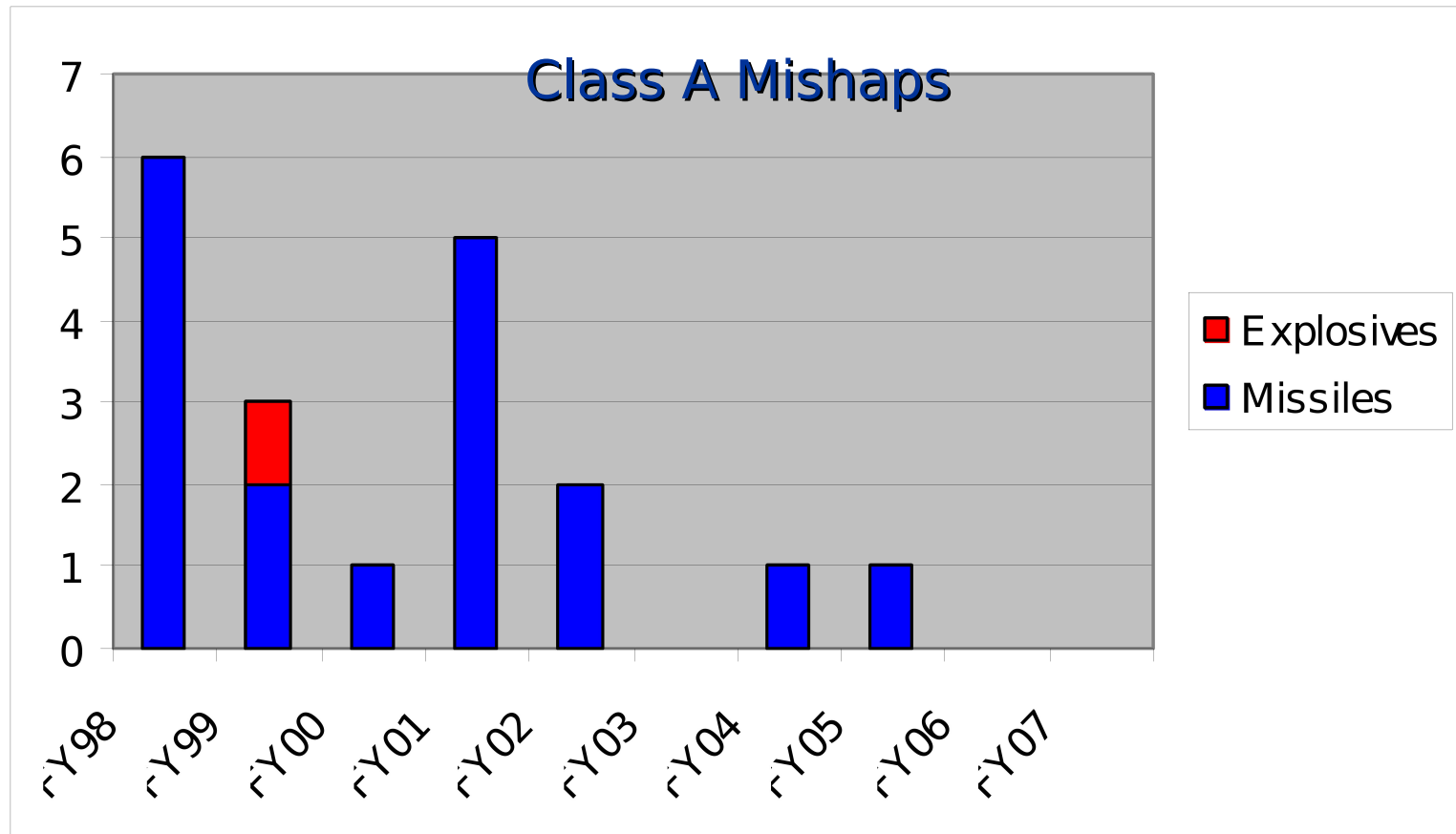


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Weapons Class A Mishaps (FY 98-07)





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Weapons Summary

- **Explosive and missile mishap rates decreasing**
- **Emphasis on mishap prevention**
- **Solid, institutionalized risk management philosophy**
- **Procedures are prescriptive and enforced**
- **Discipline... Discipline... Discipline**



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Space

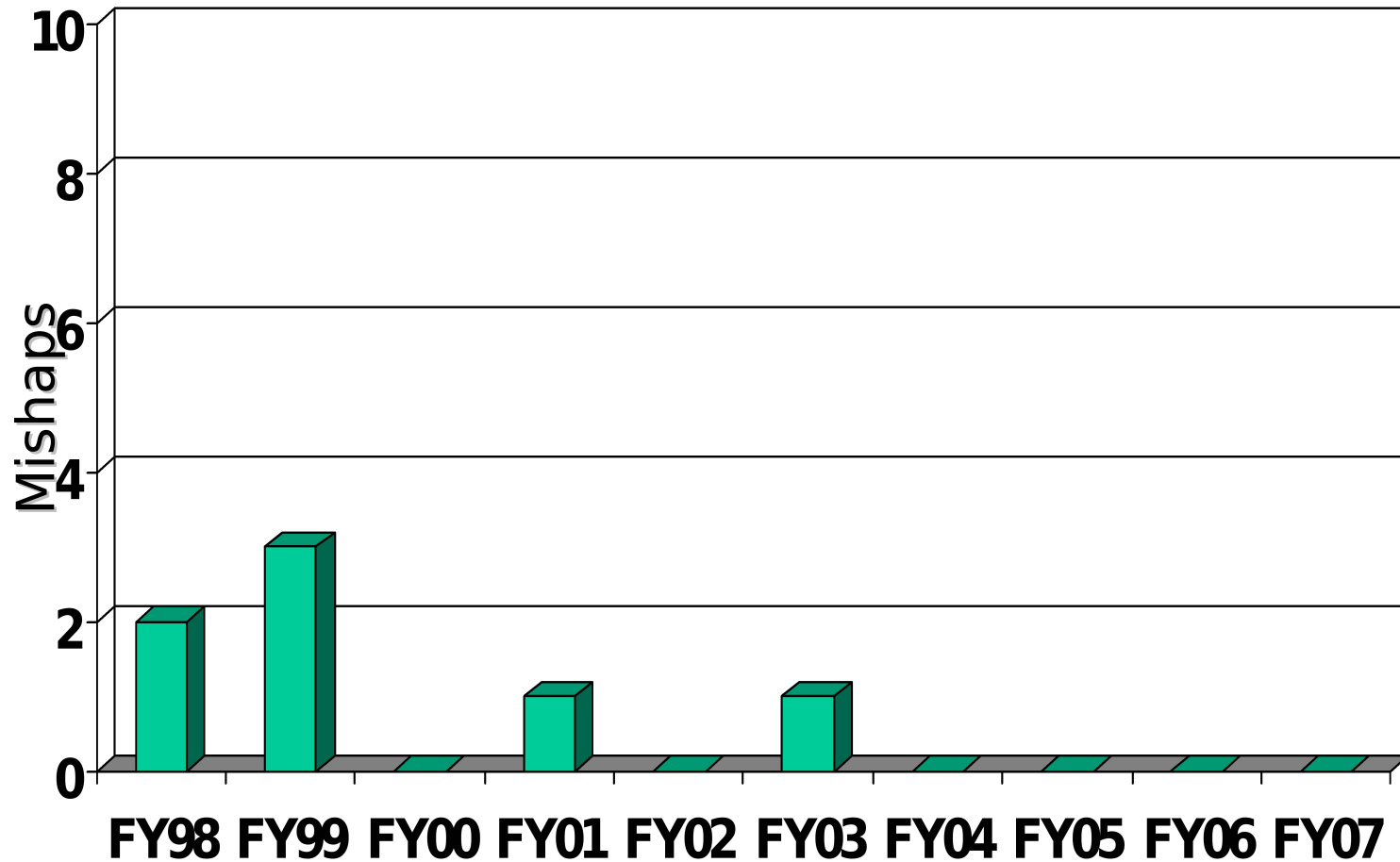


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Space Class A Mishaps (FY 98-07)





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Space Safety Summary

- **Space mishaps are less frequent due to extensive oversight and lower launch rates**
 - **The average class A cost is extremely high**
- **Advances in systems safety engineering have resulted in zero Class A mishaps from 2004-07**
- **Space Safety programs preserve national space assets through Range, Launch, Space Control and Orbital risk management**
- **Space Safety division created in March 2004**
 - **AFI 91-217 is to be published by Spring '08**



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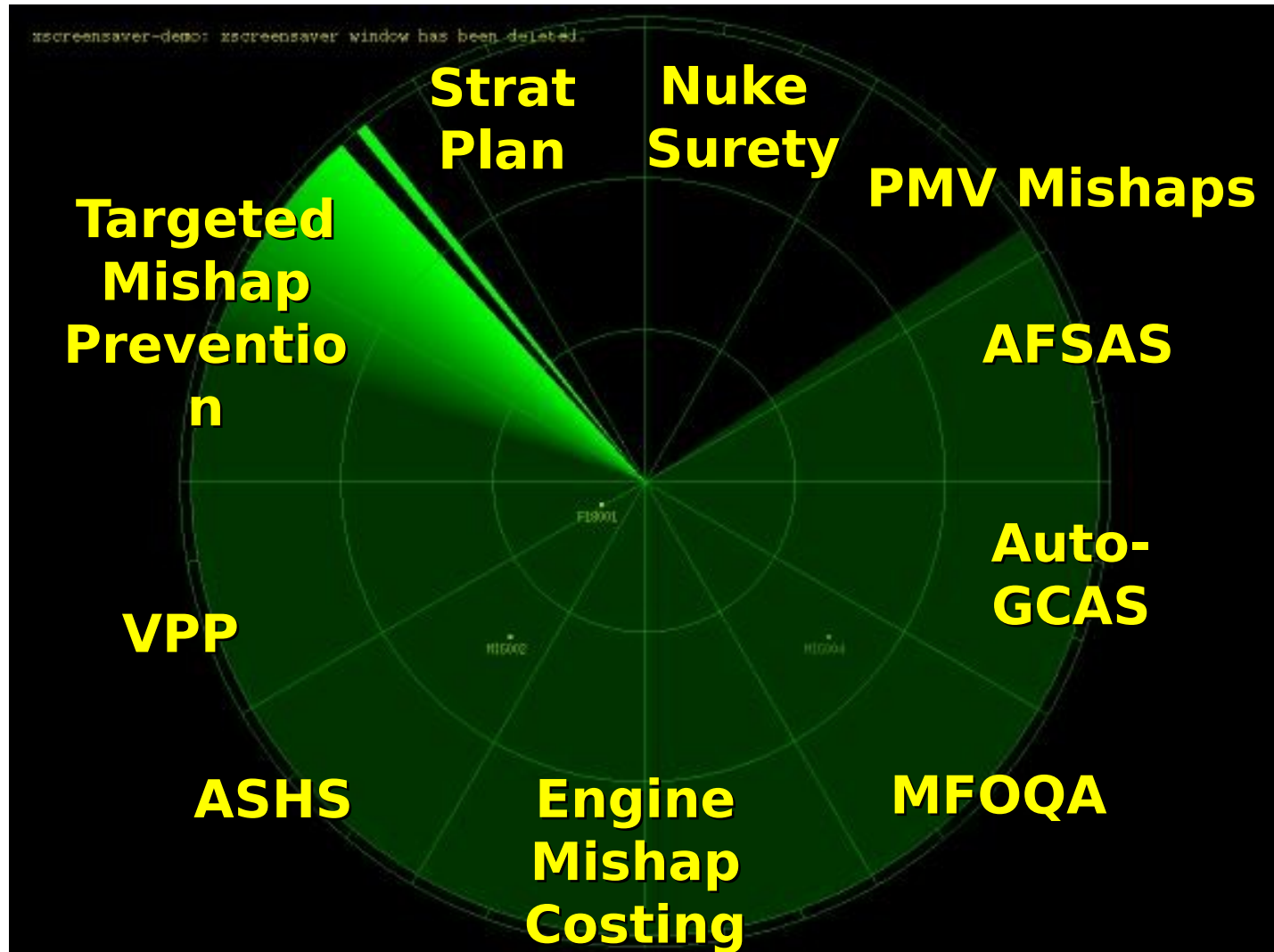
FY 07 Roll-Up (versus 10-Year Average)

Category	Fatalities		Class A Mishaps	
	FY07	FY97-06	FY07	FY97-06
Flight	2	16.1	26	28.9
Ground (On-Duty)	6	7.6	10	10.9
Ground (Off-Duty)	64	60.8	71	66.2
Space	0	0.0	0	0.7
Weapons	0	0.0	0	1.9



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AF/SE's Radar



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FY07 Concerns

- **Human error driving aviation Class A mishaps**
 - **11 of 14 destroyed aircraft attributed to human error**
 - **Procedural Guidance/Publications present in 57% of aviation Class A DOD HFACS coded mishaps**
 - **Fatigue present in ~21% of FY06-07 aviation Class A DOD HFACS coded mishaps**

- **PMV mishaps continue to be leading cause of fatalities**
 - **PMV 2 accounted for 37% of all PMV fatalities - data call of AF M/C riders underway to assess AF rates**
 - **PMV 4 rates have been gradually decreasing for the past five years**



FY07 Best Practices

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- **Operationalizing Air Force Safety Automated System (AFSAS)**
 - **State of the art safety analysis system**
- **Organizational Safety Assessments (OSAs) 1-year pre / post data shows 30% aviation mishap reduction for last 5 years**
- **AF Culture Assessment Safety Tool (AFCAST) growing demand; 16,596 AFCAST / 6,951 ANG AFCAST responses**
 - **May 07- mandated by ANG/CC**
 - **Sep 07- mandated by CSAF as part of LNSI look**
- **Targeted mishap prevention efforts**
- **HQ ACC/SEW's comprehensive PME checklist**
- **The revamped Nuclear Certification process**



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FY08 Focus Areas

- **Voluntary Protection Program**
 - **Top Level Commitment - GO steering committee**
 - **Cross-functional involvement**
 - **CONOP and COMM Plan**
 - **Eliminate duplicative efforts - lean processes**
- **Need better method to reach 18-25 year old target audience**
 - **Exploring new methods - focus groups, video clips...**
 - **Must reduce PMV related fatalities and mishaps**



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FY08 Focus Areas

- **Operationalizing AFSAS**
- **Upgrading explosives safety site planning software tool -- ASHS**
- **Expanding OSAs, AFCAST, & Safety Assessment Teams (SAT)**
- **Training**
- **Funding**



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FY08 Joint-Applicable Safety Initiatives

- **Projects with Joint-Applicability**
 - **Automatic Ground Collision Avoidance System (Auto-GCAS)**
 - **Military Flight Operations Quality Assurance (MFOQA)**
 - **AF Safety Automated System (AFSAS)**
- **JSSC Role in DSOC**



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Questions?